

Application No: 10/525,557
Amendment A
Reply to Office action of 10/13/2006

Attorney Docket No: 3926.134

IN THE CLAIMS:

The following listing of claims replaces any earlier listing:

1. (currently amended) A cylinder sleeve for a cylinder crank case, wherein the cylinder sleeve (2) includes on one end (5) a contouring (6) having multiple recesses (10),
- wherein at least one highest rise (8) of the contouring (6) supports the cylinder sleeve (2) in a pressure injection casting tool against a center sleeve (4).
2. (previously presented) The cylinder sleeve according to Claim 1, wherein the contouring (6) of the cylinder sleeve (2) corresponds to the negative shape of a contouring of a corresponding cylinder sleeve (3).
3. (previously presented) The cylinder sleeve according to Claim 2, wherein the contouring (6) of the cylinder sleeve (2) exhibits a phase displaced periodic symmetry with the contouring (7) of the corresponding cylinder sleeve (3).
4. (previously presented) The cylinder sleeve according to claim 1, wherein a deepest recess (11) of the cylinder sleeve (2) extends to the lower bottom dead center (11) of a lower most piston ring.
5. (previously presented) A process for producing a cylinder sleeve for a cylinder crank case, comprising:
dividing out multiple sleeves (2, 3) from a tube (20), wherein the dividing step includes
cutting a contouring (6) by using a cutting tool (22), wherein the cutting tool (22) moves axially relative to the tube (20) while the tube (20) moves circumferentially,

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wherein the cylinder sleeve (2) includes on one end (5) a contouring (6), wherein at least one highest rise (8) of the contouring (6) supports the cylinder sleeve (2) in a pressure injection casting tool against a center sleeve (4).

6. (previously presented) The process according to Claim 5, wherein the cutting tool (22) is moved in the inside of the pipe (20) and the cutting process occurs from inside towards outside.
7. (previously presented) The process according to Claim 5, wherein the cutting process is carried out by water jet cutting, by laser cutting, by roll separation or precision cutting or stamping.
8. (previously presented) The process according to claim 5, wherein during the cutting process a force (F) is applied against the pipe in both axial directions.

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